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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant : Roberto Cavazzoni  
Appl. No. : 10/566,456  
Filed : January 30, 2006  
Docket No. : BUG-39439

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENT UNDER 37 CFR 1.312**

Sir:

This Amendment is filed under 37 CFR 1.312 since the Issue Fee has not yet been paid.

Please amend the above-identified application as follows.

OK FOR ENTRY  
DL  
6/19/2009

## **AMENDMENTS TO THE SPECIFICATION**

Please delete page 60 of the substitute specification and replace and insert therefore the attached pages 60 and 60a. The text has been fixed so it is now readable. No new matter is being added to the application.

**REMARKS**

Pursuant to the Examiner's request, applicant is submitting attached pages 60 and 60a to rectify some concerns regarding the specification. If any fees are required by this communication, please charge such fees to our Deposit Account No. 16-0820, Order No. BUG-39439.

Respectfully submitted,

PEARNE & GORDON LLP

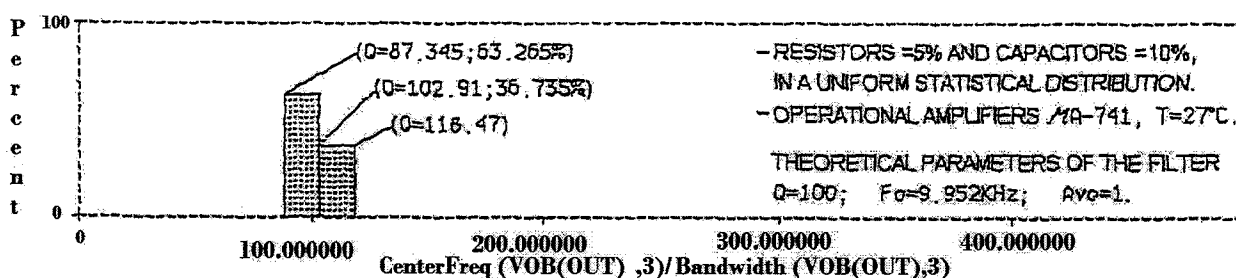
By   
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Date: June 18, 2009

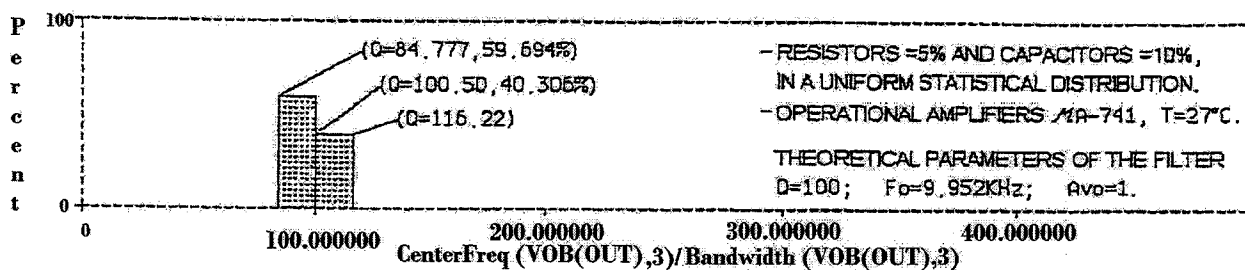
put in the same achievement conditions as the second one but with a configuration obtained with the technique of the active compensation of the poles, shown in Fig. 1c.

"Q" distribution histogram of a biquadratic filter, with ideal operational amplifiers:



n samples	= 392	sigma	= 5.68454	median	= 100.79
n divisions	= 2	minimum	= 87.3455	90th %ile	= 107.707
mean	= 100.681	10th %ile	= 92.7688	maximum	= 118.471

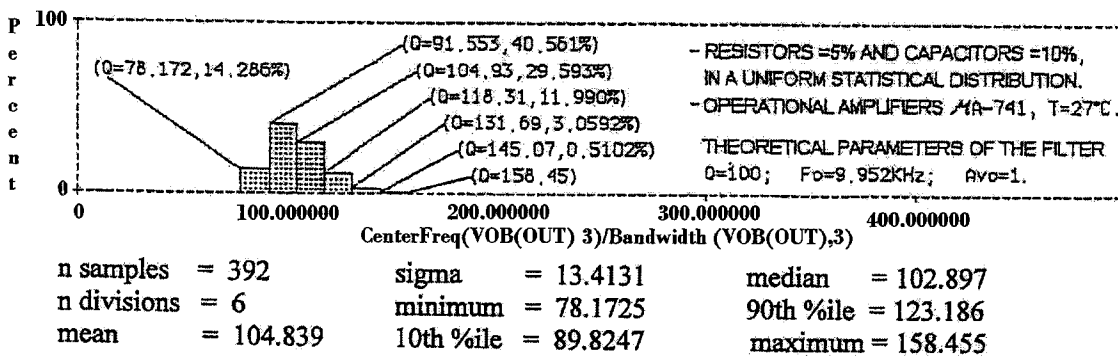
"Q" distribution histogram of the filter being the object of the invention (Fig. 17(A)):



n samples	= 392	sigma	= 6.46999	median	= 98.3578
n divisions	= 2	minimum	= 84.7776	90th %ile	= 108.176
mean	= 99.08	10th %ile	= 91.0455	maximum	= 116.224

60a

"Q" distribution histogram relating to the filter in Fig. 1c:



### Analysis and interpretation of the histograms

In order to process the three histograms, the computer has carried out the same number of Monte Carlo analyses, each comprising 392 A.C. simulations, calculating many of the values that the real "Q" can take, in each of the three filters; then the computer